

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0012	Overall LMA Rating	Total LMA Miles						
Solano County Public Works Mellin Levee	A	0.59						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	1.70%				
Encroachments					0.81			
Flood Preparedness & Training	0.01		0.01	1.70%				
<i>LMA Totals:</i>	0.02	0.00	0.02	3.39%	0.81	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Solano County Public Works Mellin Levee

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Solano County Public Works Mellin Levee

Waterway			Bank	Unit Miles
Unit No. 01 Mellin Levee			Right	0.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/27/2013 - 03/27/2013		10/10/2013 - 10/10/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Thomas Pate Solano County Water Agency		Thomas Pate Solano County Water Agency	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Solano County Public Works Mellin Levee

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee							Right	0.59	10/10/2013 10/10/2013	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		° °	° °	6
DWR ID: DWR_NA0012_01_s_2013_6										
2	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		° °	° °	7
DWR ID: DWR_NA0012_01_s_2013_7										
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	WS	M Ma		° °	° °	9
DWR ID: DWR_NA0012_01_s_2013_9										
4	0.00	0.00	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo on waterside slope. District planning to spray bamboo in late October. District is controlling Arundo on waterside slope at the entrance to the levee.	38.174051 ° -121.674220 °	38.174051 ° -121.674221 °	1 Y
DWR ID: DWR_NA0012_01_s_2012_1										
5	0.00	0.59	Earthen Levee	Encroachments	WS	M En	FE : Fence	38.174167 ° -121.674312 °	38.178960 ° -121.680600 °	3 Y
DWR ID: DWR_NA0012_01_s_2012_3										
6	0.04	0.07	Earthen Levee	Encroachments	LS	M En	AV : Abandoned vehicles Inspector Comments: Landowner is storing equipment and vehicles at landward toe.	38.174470 ° -121.674730 °	38.174746 ° -121.675044 °	8 Y
DWR ID: DWR_NA0012_01_s_2012_8										
7	0.10	0.28	Earthen Levee	Encroachments	LS	M En	FE : Fence	38.175115 ° -121.675463 °	38.176805 ° -121.677893 °	4 Y
DWR ID: DWR_NA0012_01_s_2012_4										
8	0.15	0.59	Earthen Levee	Crown Surface / Depressions / Rutting	CRA/W	Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	38.175618 ° -121.676190 °	38.178960 ° -121.680600 °	2 Y
DWR ID: DWR_NA0012_01_s_2012_2										
9	0.59	0.59	Earthen Levee	Encroachments	WS	M En	FE : Fence Inspector Comments: Animal corral.	38.180012 ° -121.681943 °	38.180012 ° -121.681943 °	5 Y
DWR ID: DWR_NA0012_01_s_2012_5										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at Arundo on waterside slope.

richard_f_20130930_579.JPG



Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west after district removed Arundo on waterside slope at the entrance of the project.

richard_f_20130930_580.JPG



Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at Arundo on waterward slope. 2013

richard_f_20131011_075.JPG



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Unit No. 01 Mellin Levee	Right	0.59	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at fence on waterside shoulder.

richard_f_20130930_582.JPG



Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at crushed vehicles at landside toe.(Spring 2012)

richard_f_20130930_585.jpg



Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at crushed vehicles and trailers on landside toe.

richard_f_20130930_586.JPG



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WS : Water Side
CR : Crown

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Unit No. 01 Mellin Levee	Right	0.59	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at equipment blocking landward toe.

richard_f_20131011_076.JPG



Levee Mile Report Line	8
Start Levee Mile	0.15
End Levee Mile	0.59
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking west at crown roadway.

richard_f_20130930_581.JPG



Levee Mile Report Line	9
Start Levee Mile	0.59
End Levee Mile	0.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at animal corral on waterside toe.

richard_f_20130930_583.JPG



*** Location**

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CR : Crown

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Levee Mile Report Line	9
Start Levee Mile	0.59
End Levee Mile	0.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking east at animal corral on waterside toe.	
richard_f_20130930_584.JPG	



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	